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**(54) WATER-RESISTANT  
CATALYST SUPPORT, ITS  
MANUFACTURING  
METHOD, WATER-  
TREATABLE CATALYST  
DEPOSITED ON SAID  
SUPPORT AND WATER  
TREATING METHOD USING  
SAID CATALYST**

(57) Abstract:

**PURPOSE:** To permit a catalyst support to be used stably for a long period of time under severe water treating conditions, by forming a water-resistant and -treatable catalyst support containing the multiple oxide of titanium and zirconium having a crystal of  $ZrTiO_4$ .

**CONSTITUTION:** A titanium compound and a zirconium compound are heated at a temperature of 600-1000°C, preferably 660-900°C to form a water-resistant catalyst support

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containing a multiple oxide of titanium and zirconium having a bond structure of  $ZrTiO_4$ . At least one metallic, water-insoluble or indissoluble compound selected as a catalytically active component from the group consisting of Mn, Fe, Co, Ni, Ce, W, Cu, Ag, Au, Pt, Pd, Rh, Ru and Ir is deposited on this catalyst support to form a water-treatable catalyst. It is preferable for said catalyst support to have the composition of  $TiO_2$  of 20-90 molar percent and  $ZrO_2$  of to 10-80 molar percent.

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